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APPLICATION NO.	FILIT	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,186	04/	01/2004	Heung-Lyul Cho	0630-1978P	6423	
2292	7590	12/12/2006		EXAM	INER	
BIRCH ST PO BOX 74		OLASCH & BIRO	RODGERS, O	RODGERS, COLLEEN E		
	•	22040-0747		ART UNIT	PAPER NUMBER	
,				2813	2813	

DATE MAILED: 12/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	•			Λ.			
	•	Application No.	Applicant(s)	1			
		10/814,186	CHO ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Colleen E. Rodgers	2813				
7 Period for R	he MAILING DATE of this communication app Leply	pears on the cover sheet with	h the correspondence address	í 			
WHICHE - Extension after SIX - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLEVER IS LONGER, FROM THE MAILING DOWNS of time may be available under the provisions of 37 CFR 1.1 (6) MONTHS from the mailing date of this communication lood for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by statute received by the Office later than three months after the mailing atent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC. (36(a). In no event, however, may a reposite and will expire SIX (6) MONT (6) cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this communi. NDONED (35 U.S.C. § 133).				
Status							
1)⊠ Re	esponsive to communication(s) filed on 16 N	lovember 2006.		•			
2a)⊠ Th	This action is FINAL . 2b) This action is non-final.						
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
clo	sed in accordance with the practice under <i>l</i>	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition	of Claims						
4)⊠ Cla	aim(s) <u>1-16</u> is/are pending in the application	l .	<i>,</i> •				
•	Of the above claim(s) is/are withdra						
5)⊠ Cla	aim(s) <u>1-13</u> is/are allowed.						
6)⊠ Cla	aim(s) <u>14-16</u> is/are rejected.	•					
7)□ Cla	aim(s) is/are objected to.						
8)∏ Cla	aim(s) are subject to restriction and/c	or election requirement.					
Application	Papers						
9)□ The	e specification is objected to by the Examine	er.					
• —	e drawing(s) filed on is/are: a) acc		y the Examiner.				
•	plicant may not request that any objection to the	•	•				
Re	placement drawing sheet(s) including the correc	tion is required if the drawing(s) is objected to. See 37 CFR 1.1	21(d).			
11) 🔲 The	e oath or declaration is objected to by the Ex	xaminer. Note the attached	Office Action or form PTO-15	i2 .			
Priority und	er 35 U.S.C. § 119						
=	knowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
. بے رہ 1.1	_ ' '	ts have been received.	,				
	Certified copies of the priority document		plication No.				
	Copies of the certified copies of the prio			e			
	application from the International Burea	u (PCT Rule 17.2(a)).					
* See	the attached detailed Office action for a list	of the certified copies not r	eceived.				
	•						
Attachment(s)		_					
	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413) /Mail Date				
	on Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Inf	ormal Patent Application				
	o(s)/Mail Date	6) 🔲 Other:	<u> -</u>				

Art Unit: 2813

DETAILED ACTION

1. This Office Action responds to the Amendment filed 16 November 2006. By this amendment, claim 14 is amended and claim 17 is canceled. Note that the finality of the Office Action dated 16 August 2006 is withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by **Harvilchuck** et al (USPN 3,994,793).

Regarding claim 14, **Harvilchuck et al** disclose a method for manufacturing a semiconductor device comprising:

providing a substrate; forming a photoresist layer over the substrate; forming a conductive layer over the photoresist layer; and simultaneously removing the photoresist layer and the conductive layer by etching [see col. 1, lines 40-47].

Regarding claim 16, **Harvilchuck et al** disclose the method of claim 14, furthermore wherein the conductive layer is a metal [see col. 1, lines 40-47].

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harvilchuck et al (USPN 3,994,793) in view of Cleeves (USPN 6,004,874). Harvilchuck et al disclose the method of claim 14. Harvilchuck et al do not disclose wherein the photoresist is a positive photoresist or a negative photoresist. Cleeves discloses that a photoresist may be either positive or negative. It would have been obvious to one of ordinary skill in the art at the time of invention to use either a positive or a negative photoresist because they are known equivalents in the art.

Allowable Subject Matter

6. Claims 1-13 are allowed for reasons deemed to be of record.

Response to Arguments

7. Applicant's arguments with respect to claims 14-16 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the

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THREE-MONTH shortened statutory period, then the shortened statutory period will expire on

the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Colleen E. Rodgers whose telephone number is (571) 272-8603. The examiner

can normally be reached on Monday through Friday, 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system,

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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